

CLAIMS

1/ A wheel assembly comprising:

- a wheel having a rim adapted to receive a tire,
the wheel carrying a sensor for measuring pressure inside
5 the tire;

- a spindle around which the wheel is mounted to
rotate; and

- communication means between the sensor and means
associated with the spindle for making use of

10 measurements performed by the sensor;
wherein said communication means comprise radio
transmission means including a rotary antenna carried by
the wheel and a fixed antenna carried by the spindle.

15 2/ A wheel assembly according to claim 1, wherein the
spindle has a free end, and wherein the fixed antenna and
the rotary antenna are disposed in the vicinity of the
free end of the spindle.

20 3/ A wheel assembly according to claim 2, wherein the
rotary antenna and the fixed antenna are placed facing
each other in succession in line with the spindle.

25 4/ A wheel assembly according to claim 3, wherein the rim
includes a hub with a through passage in which the
spindle is engaged, and the assembly further including a
cap closing said passage in line with the free end of the
spindle, the rotary antenna being carried by the cap on
its face looking towards the spindle, the cap, the
30 spindle, and the hub defining an essentially closed space
within which the rotary antenna and the fixed antenna are
confined.

35 5/ A wheel assembly according to claim 1, wherein the
rotary antenna and the fixed antenna are generally
circularly symmetrical, and wherein they are disposed

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substantially coaxially about the axis of rotation of the wheel.

5 6/ A wheel assembly according to claim 1, wherein each of the rotary antenna and the fixed antenna comprises a set of metal turns carried by a support, which turns form the transmission and/or reception elements of the antenna.

10 7/ A wheel assembly according to claim 4, wherein each of the rotary antenna and the fixed antenna comprises a set of metal turns carried by a support, which turns form the transmission and/or reception elements of the antenna, and said set of metal turns of the rotary antenna is carried directly by the cap forming a support.

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